

















LESSON 09. EQUATIONS

ACTIVITY. PUZZLES

WHAT IS THE VALUE OF EACH ANIMAL?

You know that the sum of the row is equal to the number next to it. And it is the same to the columns.

| | | | | | | | |
|---|---|---|---|----|---|---|--|
|  |  |  |  | 13 |  | = | |
|  |  |  |  | |  | = | |
|  |  |  |  | 18 |  | = | |
| 10 | | 15 | 10 | |  | = | |

To simplify we can change each animal by a letter. It is easier and clearer.

Exercise

Put in algebraic language the following sentences or phrases:

- Five more than 'x'.
- A number divided by 3.
- Three times a number.
- Three times a number minus eight.
- Seven years older than Luis' age.
- The sum of four times 'x' plus five times 'y'.

Charts

We can use tables as a practical tool to solve problems. These are good examples:

Exercise 1

A bottle and its cap cost one euro twenty cents. And the bottle is a euro more than the cap. How much is each item?

| Bottle | Cap | All |
|--------|-----|-------------|
| $1+x$ | x | $1+2x=1'20$ |

So the equation in this case is:

$$1+2x=1'20$$

Exercise 2

Complete the table corresponding to the next enunciate:

Sixteen years later I will be three times older than now.

| Today | 16 years later | Three times |
|-------|----------------|-------------|
| | | |

Exercise 3

Complete the table according to the following information:

Jesus is five years older than Pablo. Ramón is three times older than Pablo. Lucia is two years older than Ramón

| | Jesus | Pablo | Lucia | Ramón |
|-----------------|-------|-------|-------|-------|
| Three years ago | | | | |
| Today | | x | | |
| Five year later | | | | |